Please type a plus sign (+) inside this box ☐

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of info unless it contains a valid OMB control no.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/607, 455
		Filing Date	June 26, 2003
		First Named Inventor	Paula J. Bates
		Group Art Unit	1645 1644
		Examiner Name	To be assigned 1644
Sheet 1 of 1	Attorney Docket Number	09799910-0034	

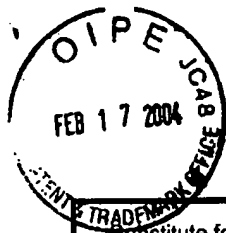
OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PJK	47	SCHADE, Rüdiger and HLINAK, Andreas, "Egg Yolk Antibodies, State of the Art and Future Prospects," ALTEX 13, Supplement 96, pp. 5-9 (1996).	

Examiner Signature		Date Considered	11/4/05
--------------------	--	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of info unless it contains a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/607,455
				Filing Date	June 26, 2003
				First Named Inventor	Paula J. Bates
				Group Art Unit	1645 1644
Sheet	1	of	4	Examiner Name	Huynh, PN
				Attorney Docket No.	09799910-0034

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
PJK	1	US-5,925,334	07-20-1999	Rubin et al.	
	2	US-5,932,475	08-03-1999	Bandman et al.	
	3	US-6,048,703	04-11-2000	Siman et al.	
	4	US-6,291,643	09-18-2001	Zou et al.	
	5	US-6,325,785	12-04-2001	Babkes et al.	
	6	US-6,339,075	01-15-2002	King et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
PJK	7	WO 00/61597	10-19-2000	UAB Research Foundation		<input type="checkbox"/>

Examiner Signature		Date Considered	11/4/05
-----------------------	---	--------------------	---------

23131546V-1

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Please type a plus sign (+) inside this box ☒

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

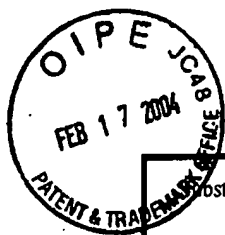
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of info unless it contains a valid OMB control no.

Substitute for form 1449B/PTO			Complete if Known		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/607,455	
			Filing Date	June 26, 2003	
			First Named Inventor	Paula J. Bates	
			Group Art Unit	1645 1644	
			Examiner Name	Huynh P.N.	
Sheet	2	of	4	Attorney Docket No.	09799910-0034
OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>		
P.N.K.	8	BATES et al., "Antiproliferative Activity of G-rich Oligonucleotides Correlates with Protein Binding," J. Biol. Chem., 1999, pp. 26369-26377, Vol. 274.			
	9	BISCOTTI et al., "Apoptotic Bodies: A Consistent Morphologic Feature of Endocervical Adenocarcinoma in situ," Am. J. Surg. Pathol., 1998, pp. 434-439, Vol. 22.			
	10	CALLEBAUT et al., "Identification of V3 Loop-binding Proteins as Potential Receptors Implicated in the Binding of HIV Particles to CD4+ Cells," Biol. Chem., 1998, pp. 21988-21997, Vol. 273.			
	11	CHOI et al., "Apoptosis and Nuclear Shapes in Benign Prostate Hyperplasia and Prostate Adenocarcinoma: Comparison with and Relation to Gleason Score," Int. J. Urol., 1999, 13-18, Vol. 6.			
	12	COQUERET et al., "Functional Interaction of STAT3 Transcription Factor with the Cell Cycle Inhibitor p21 <sup>WAF1/CIP1/SDI1</sup> ," J. Biol. Chem., 2000, pp. 18794-18800, Vol. 275.			
	13	DAVIS et al., "Staining of Cell Surface Human CD4 with 2'-F-pyrimidine-containing RNA Adptamers for Flow Cytometry," Nucl. Acids Res., 1998, pp. 3915-3924, Vol. 26.			
	14	DERENZINI, "The AgNORs," Micron., 2000, pp. 117-120, Vol. 31.			
	15	FACOMPRES et al., "Apoptotic Response of HL-60 Human Leukemia Cells to the Antitumor Drug NB-506, a Glycosylated Indolocarbazole Inhibitor of Topoisomerase 1," Biochem. Pharmacol., 2001, pp. 299-310, Vol. 61.			
	16	GAUTIER et al., "Production and Characterisation of a Monoclonal Antibody Specific for Apoptotic Bodies Derived from Several Tumour Cell Lines," J. Immunol. Methods., 1999, pp. 49-58, Vol. 228.			
	17	GAVRIELI et al., "Identification of Programmed Cell Death in situ Via Specific Labeling of Nuclear DNA Fragmentation," J. Cell Biol., 1992, pp. 493-501, Vol. 119.			
	18	GINISTRY et al., "Structure and Functions of Nucleolin," J. Cell Sci., 1999, pp. 761-772, Vol. 112.			
	19	HOLDENRIEDER et al., "Nucleosomes in Serum of Patients with Benign and Malignant Diseases," Int. J. Cancer, 2001, pp. 114-120, Vol. 95.			
	20	HOLDENRIEDER et al., "Circulating Nucleosomes in Serum," Ann. N.Y. Acad. Sci., 2001, pp. 93-102, Vol. 945.			
✓	21	HOLDENRIEDER et al., "Nucleosomes in Serum as a Marker for Cell Death," Clin. Chem. Lab. Med., 2001, pp. 596-605, Vol. 39.			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

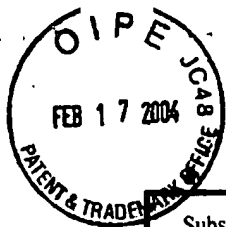
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			<b>Complete if Known</b>		
Application Number			10/607,455		
Filing Date			June 26, 2003		
First Named Inventor			Paula J. Bates		
Group Art Unit			1645 1644		
Examiner Name			HUYNH, P.N.		
Attorney Docket No.			09799910-0034		
Sheet	3	of	4		
<b>OTHER ITEMS – NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
P.J.B.	22	KERR et al., "Apoptosis: A Basic Biological Phenomenon with Wide-Ranging Implications in Tissue Kinetics," Br. J. Cancer, 1972, pp. 239-257, Vol. 26.			
	23	KIM et al., "A Micro Double Capillary Method for Rheologic Measurements of Lower Airway Secretions," Bull Eur. Physiopathol. Respir., 1982, pp. 915-927, Vol. 18.			
	24	LANGER et al., "Enzymatic Synthesis of Biotin-Labeled Polynucleotides: Novel Nucleic Acid Affinity Probes," Proc. Natl. Acad. Sci. USA., 1981, pp. 6633-6637, Vol. 78.			
	25	LEITINGER et al., "ADP-Ribosylation of Nucleolar Proteins in HeLa Tumor Cells," J. Cell. Biochem., 1993, pp. 153-158, Vol. 52.			
	26	LICHTENSTEIN et al., "Circulating Nucleic Acids and Apoptosis," Ann. N.Y. Acad. Sci., 2001, pp. 239-249, Vol. 945.			
	27	MARTELLI et al., "Biochemical and Morphological Characterization of the Nuclear Matrix from Apoptotic HL-60 Cells," J. Cell. Biochem., 1999, pp. 35-46, Vol. 72.			
	28	MARTIN et al., "Protease Activation During Apoptosis: Death by a Thousand Cuts?," Cell, 1995, pp. 349-52, Vol. 82.			
	29	MCNICOL et al., "Optimizing Immunohistochemistry: Antigen Retrieval and Signal Amplification," Histopathology, 1998, pp. 97-103, Vol. 32.			
	30	NORGAARD et al., "FAB M4 and High CD14 Surface Expression is Associated with High Cellular Resistance to Ara-C and Daunorubicin: Implications for Clinical Outcome in Acute Myeloid Leukaemia," Eur. J. Haematol., 2001, pp. 221-229, Vol. 67.			
	31	ORFAO et al., "General Concepts About Cell Sorting Techniques," Clin. Biochem., 1996, pp. 5-9, Vol. 29.			
	32	PINTON et al., "The Ca <sup>2+</sup> Concentration of the Endoplasmic Reticulum is a Key Determinant of Ceramide-Induced Apoptosis: Significance for the Molecular Mechanism of Bcl-2 Action," Embo. J., 2001, pp. 2690-2701, Vol. 20.			
	33	ROBINSON et al., "Antigen Retrieval in Cells and Tissues: Enhancement with Sodium Dodecyl Sulfate," Histochem. Cell Biol., 2001, pp. 119-130, Vol. 116.			
	34	ROSENTHAL et al., "Detection of DNA Breaks in Apoptotic Cells Utilizing the DNA Binding Domain of poly(ADP-ribose) Polymerase with Fluorescence Microscopy," Nucl. Acids Res., 1997, pp. 1437-1441, Vol. 25.			
	35	SCHIMMER et al., "Receptor- and Mitochondrial-Mediated Apoptosis in Acute Leukemia: A Translational View," Blood, 2001, pp. 3541-3553, Vol. 98.			
	36	SCHMIDT-ACEVEDO et al., "LE Cells' Result from Phagocytosis of Apoptotic Bodies Induced by Antinuclear Antibodies," J. Autoimmun., 2000, pp. 15-20, Vol. 15.			
	37	SCOVASSI et al., "Poly(ADP-ribosylation) and Apoptosis," Mol. Cell Biochem., 1999, pp. 125-137, Vol. 199.			
✓	38	SOHN et al., "Caspase-3/CPP32 Immunoreactivity and its Correlation with Frequency of Apoptotic Bodies in Human Prostatic Carcinomas and Benign Nodular Hyperplasias," Histopathology, 2000, pp. 555-560, Vol. 37.			

*Handwritten signature*

11/4/05



Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 4

## Complete if Known

Application Number 10/607,455  
Filing Date June 26, 2003  
First Named Inventor Paula J. Bates  
Group Art Unit 1645 1644  
Examiner Name Huyuth, P.N.  
Attorney Docket No. 09799910-0034

## OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<u>P.N.H.</u>	39	SOROKINA et al., "Cloning and Preliminary Characterization of a Calcium-binding Protein Closely Related to Nucleolin on the Apical Surface of Inner Medullary Collecting Duct Cells," J. Biol. Chem., 1999, pp. 27491-27496, Vol. 274.	
	40	SRIVASTAVA et al., "Molecular Dissection of Nucleolin's Role in Growth and Cell Proliferation: New Insights," Faseb. J., 1999, pp. 1911-1922, Vol. 13.	
	41	SUTTON et al., "Initiation of Apoptosis by Granzyme B Requires Direct Cleavage of Bid, But Not Direct Granzyme B-mediated Caspase Activation," J. Exp. Med., 2000, pp. 1403-1413, Vol. 192.	
	42	THORNBERRY et al., "Caspases: Enemies Within," Science, 1998, pp. 1312-1316, Vol. 281.	
	43	TORMANEN et al., "Enhanced Apoptosis Predicts Shortened Survival in Non-Small Cell Lung Carcinoma," Cancer Res., 1995, pp. 5595-5602, Vol. 55.	
	44	TUTEJA et al., "Nucleolin: A Multifunctional Major Nucleolar Phosphoprotein," Crit. Rev. Biochem. Mol. Biol., 1998, pp. 407-436, Vol. 33.	
	45	WYLLIE et al., "Cell Death: The Significance of Apoptosis," Int. Rev. Cytol., 1980, pp. 251-306, Vol. 68.	
<u>✓</u>	46	XU et al., "Inhibition of DNA Replication and Induction of S Phase Cell Cycle Arrest by G-Rich Oligonucleotides," J. Biol. Chem., 2001, pp. 43221-43230, Vol. 276.	

Examiner Signature	<u>[Signature]</u>	Date Considered	<u>11/4/05</u>
-----------------------	--------------------	--------------------	----------------